



OS	Macadamia integrifolia.	
FH	Key	Location/Qualifiers
FT	Peptide	1..28
FT		/note= "signal peptide"
FT	Protein	29..666
FT		/note= "mature protein"
PN	W09827805.A1.	
PD	02-JUL-1998.	
PF	22-DEC-1997.	AU0874.
PR	20-DEC-1996.	AU-004275.
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.	
PI	Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;	
DR	WPL: 98-37279/32.	
DR	N-PDSB: V42311.	
PT	Novel anti-microbial protein from e.g. Macadamia integrifolia -	
PT	useful for controlling microbial infestations of plants or mammals	
PS	Claim 1; Page 39-41; 96pp; English.	
CC	The sequence is that of an antimicrobial protein which can	
CC	be used to control microbial infestations in plants and mammalian	
CC	animals.	
CC	Sequence	666 AA;
50		

Query Match	93.68;	Score 481;	DB 1;	Length 666;
Best Local Similarity	93.98;	Pred. No. 4.25e-40;		
Matches	62;	Conservative	1;	Indels 0;
		Mismatches	1;	Gaps 0;

```

23 186 KRDPQREYEDCRRCRCEQEPKQYOCRCRCEDQROHGSGDLINPORGSGGRYESEE 245
    ++++++ :+++++ :+++++ :+++++ :+++++ :+++++ :+++++ :+++++
QY 145 KRDPQREYEDCRRCRCEQEPKQYOCRCRCEDQROHGSGDLINPORGSGGRYESEE 204

```

Db	246	KQSDNP	251
...	205	KQSDNP	210

RESULT 3  
i62628 standard; Protein; 666 AA

27-001-1998 (first entry)  
Macadamia integrifolia antimicrobial protein  
KW antimicrobial protein; infestation; control.

Key	Location/Qualifiers
peptide	1..28
	/note= "signal peptide"

FT	/note= "mature protein"
PN	W09827805-A1.
PD	02-JUL-1998.

PR 20-DEC-1996; AU-004275.  
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP

PT Novel anti-microbial protein from e.g. *Macadamia integrifolia* -  
PT useful for controlling microbial infestations of plants or mammals

The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.

```

SV      sequence      000 AA;
Query Match      87.98; Score 452; DB 1; Length 666
Best Local Similarity 89.48; Pred. No. 5.25e-37;

```

```

Db 186 KNDPQGREYEDCRHRCCEQDEPRQHQCOLRCRHEQQRQHGGRGDMNPRQGGSGRYEGEE 245
      matches 59; conservative 3; mismatches 4; indels 0; gaps 0;

```

QY	145	KRDPQOREYEDCRHRCEQEQEPRILOYOCORRCQEQORQHGRGGLMNPQRGGSGRYEEGEE	204
Db	246	EOSDNP	251

QY 205 KQSDNP 210

RESULT	4
ID	W62831 standard; Protein; 525 AA

DT 27-OCT-1998 (first entry)  
DE Theobroma cacao antimicrobial protein.  
KN antimicrobial protein; infestation; control

PN	W09827805-A.
PD	02-JUL-1998
PF	22-DEC-1997

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP,  
DR WPI; 98-377279/32.

PT useful for controlling microbial infestations of plants or mammals  
PS Claim 1, Page 47-49, 96pp. English.  
CC The sequence is that of an antimicrobial protein which can

CC	animals.	Sequence	525 AA;
sq			

Best Local Similarity 42.9%; Pred. No. 4,96e-07;  
Matches 27; Conservative 13; Mismatches 20; Indels 3; Gaps 3

```

150 QREYEDCRHC-EOE-PILOYOCQRCQEOQOHGRCGDDLMNPQRCGSGRYEEGEEKQS 207

```

QY	208	DNP	210
----	-----	-----	-----

RESULT	5
ID	R20181
AC	R20181;
	standard; Protein; 566 AA.

Sequence encoded by 67 kD T. cacao protein cDNA  
Cocoa; flavour; vicillin; seed storage protein.  
Theobroma cacao.

PD 26-DEC-1991.  
PF 07-JUN-1991; G00914.  
PR 11-JUN-1990; GR-013016

FA (MASC) MARKS ON LUD.  
PI Spencer ME, Hodge R, Deakin EA, Ashton S  
WPI: 92-024418/03.  
DR N-PSDB: 020377

PT beans and produced in large quantities using yeast and bacterial expression vectors

CC The inventors claim a 67 kD and 31 kD T. cacao protein, and  
CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins  
CC derived from the 67 kD precursor. T. cacao protein cDNA was  
CC

CC using a probe based on the AA sequence of a CNBr peptide common to  
CC the 47 kD and 31 kD polypeptides. Homology searches revealed close  
CC homologues between the 67 kD polypeptide and the vicilins, which are

Seq	Sequence	566	AA;
Query Match		31.5%	Score 162; DB 1; Length 566

Db 82 QROYQCGRCDEQDQGGRRQDQCCRKWEYKQDENG-EHENYHNHKKNRSEEEGQOR 140  
Matches 27; Conservative 13; Mismatches 20; Indels 3; Gaps 3;

[illegible]

```
DE Human androgen receptor DNA clone.  
KW Androgen receptor: TR2 polypeptide.  
OS Homo sapiens.
```

	Location	Qualifiers
FT key	/tag= a	
FT region	/product=98 kd polypeptide	
FT FT	185..919	
FT /**tag- b		
FT /product=79 kd polypeptide		
PB WS6909223-A.		
PD 05-OCT-1989.		
PF 24-MAR-1989; U01238.		
PR 30-MAR-1988; US-176107.		
PA (ARCH-) Arch Development Corp.		
PI Liao S., Chang C;		
DR WPI: 89-309501/42.		
N-PSSD: N91577.		
PT New DNA encoding new androgen receptor and TR2 polypeptide(s) - able to bind DNA, and derived antibodies, useful for receptor assay and purification.		
PS Claim 8; fig. 3; 60pp; English.		
CC The protein is used to raise antibodies for receptor assays and for affinity purification.		
CC The 98 kd product starts at the first Met codon; the 79 kd product starts from the second.		
SQ Sequence 919 AA;		

Query Match	17.1%	Score 88;	DB 1:	Length 919;
Best Local Similarity 36.0%;		Pred. No. 3.59e+00;		Mismatches 24; Indels 0; Gaps 0
Matches 18; Conservative 8;		Mismatches 24; Indels 0; Gaps 0		

Df 65 QQQQQQQQQQQETSPQQQQOHHGGGSGPOARRRGTGYLVLDGEQPSP 114  
::: : | | : ||| : | :: : | | |  
Yy 161 EQGPRLQYGCCRRCQEQRHGRGGDLMPNRGSGSRYEGERKEKSDNP 210

RESULT 9  
ID Y04998 standard; Protein; 388 AA.  
AC Y04998;  
DT 06-JUL-1999 (first entry)  
DE Mycobacterium species protein sequence 50B.  
KW Secreted protein; Mycobacterium; primer; PCR; amplification; probe;  
hybridisation; detection; vaccine; immunisation; infection.  
OS Mycobacterium sp.  
PN WC0909186-AZ.  
PW 25-FEB-1999.  
PF 14-AUG-1998; F01813.  
PP 11-SEP-1997; FR-011325.  
PR 14-AUG-1997; FR-010404.  
RA (INSP ) INST PASTEROR.  
PI Glequet B , Jim EM, Pellicio V, Portnoi D, Goguet de la Salmoniere Y,  
P1 Guigueno A;  
P2 WPI: 99-181045/15.  
DR N-PSSD: X34249.  
PT Mycobacterial DNA vectors containing reporter constructs - for  
identifying coding or promoter sequences involved in  
infection-associated protein expression  
PS Claim 32; Fig 50B; 309pp; French.  
CC Sequences Y04742-Y05000 and Y07201-Y07204 represent secreted proteins  
from various Mycobacterium species microorganisms. The encoding  
C nucleotide sequences can be used as primers and probes for methods  
for detecting and identifying mycobacteria, especially belonging to  
the M. tuberculosis complex. The encoded proteins can be used in  
vaccines for immunisation against a bacterial or viral infection.  
SQ Sequence 388 AA;

Query Match	16.3%	Score 84;	DB 1:	Length 388;
Best Local Similarity 36.1%;		Pred. No. 7.88e+00;		Mismatches 13; Conservative 7; Indels 0; Gaps 0
Matches 13; Conservative 7;		Mismatches 16; Indels 0; Gaps 0		

Bd 9 RRGWRRCGCRVAGRRRRRMWRERRRCONHOR 44  
: | : | | : | : | | | | :

145 KRDPQREYEDCRRCRCEQDEPRLOYCCRCRCEQQR 180

RESULT 10  
ID W62835 standard; Protein; 593 AA.  
AC W62835:  
DT 27-OCT-1998 (first entry)  
DE Zea mays antimicrobial protein.  
KW antimicrobial protein; infection; control.  
OS zea mays.  
PN W09827805-A1.  
PD 02-JUL-1998.  
PF 22-DEC-1997; AU0874.  
PR 20-DEC-1996; AU-004275.  
PI (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PT Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;  
DR WPI: 98-377279/32.  
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
PI useful for controlling microbial infestations of plants or mammals  
PS Claim 1: Page 58-60; 96pp; English.  
CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.  
SQ Sequence 593 AA:

Query Match 16.0%; Score 84; DB 1; Length 593;  
Best Local Similarity 27.6%; Pred. No. 1.16e+01;  
Matches 16; Conservative 20; Mismatches 17; Indels 5; Gaps 4;

DB 39 OCVRCEDR-PWHRPCLEOCREERERKERSHREAD-DRSGSGSEDEREKEK 94  
155 DCRRCRCEQDEPRLOY-CCRCRCEQQR--HGKGDLMNPQSGSGRYEGEKEKSDN 209

RESULT 11  
ID R12223 standard; Protein; 918 AA.  
AC R12223:  
DT 20-AUG-1991 (first entry)  
DE Human androgen receptor.  
KW hAR: DNA-binding protein; steroid hormone.  
OS Homo sapiens.  
FH Key Location/Qualifiers  
FT domain 556..626  
FT /label=DNA-binding domain  
FT /note="cysteine-rich"  
PN W09107423-A.  
PD 30-MAY-1991.  
PF 19-OCT-1990; U06015.  
PR 17-NOV-1989; US-438775.  
PA (ARCH-) ARCH DEV CORP.  
PI Liao S, Chang C;  
DR WPI: 91-178048/24.  
DR N-PSDB: 012001.  
PT Androgen receptor and TR2 DNA binding proteins - DNA sequences  
PT and antibodies for detection and quantification methods  
PS Claim 25: Fig 3; 79pp; English.  
CC This sequence was deduced from a cDNA clone isolated by screening  
CC commercially available human testis and prostate lambda gt11 cDNA  
CC libraries. The sequence is very similar to that of rat AR and in  
CC the DNA-binding domain it is identical to that of rAR DNA-binding  
CC domain. Homology comparisons with other known steroid receptors  
CC indicate that hAR is more closely related to glucocorticoid,  
CC mineralo-corticoid and progesterone receptors than to v-erb-A or to  
CC receptors for oestrogen, vitamin D and thyroid hormones.  
SQ Sequence 918 AA:

Query Match 16.0%; Score 82; DB 1; Length 918;  
Best Local Similarity 32.0%; Pred. No. 1.16e+01;  
Matches 16; Conservative 11; Mismatches 23; Indels 0; Gaps 0;

DB 64 Q000000000ETSPRQ00000GEGDSPQAHRRGPTGYLVDEEQPSOP 113  
161 EQGPRLOYCCRCRCEQQR--HGKGDLMNPQSGSGRYEGEKEKSDN 210

RESULT 12  
ID W14783 standard; Protein; 919 AA.  
AC W14783:  
DT 22-JUN-1997 (first entry)  
DE Androgen receptor.  
KW Androgen receptor; acidic fibroblast growth factor; aFGF;  
KW antisense; benign prostatic hyperplasia; prostate cancer; therapy.  
OS Homo sapiens.  
PN W09711170-A1.  
PD 27-MAR-1997.  
PF 20-SEP-1996; U15081.  
PR 20-SEP-1995; US-004018.  
PI (MORC-) WORCESTER FOUND BIOMEDICAL RES.  
PT Zamecnik PA;  
DR WPI: 97-202879/18.  
DR N-PSDB: T63407.  
PT Oligonucleotide(s) antisense to human androgen receptor and acidic  
PT FGF genes - used to inhibit gene expression, for the treatment of  
PT benign prostatic hyperplasia  
PS Disclosure; Page 22-28; 51pp; English.  
CC Human androgen receptor (W14783) binds testosterone and, acting  
CC at the transcriptional level, regulates the growth of normal  
CC prostatic cells. Antisense oligonucleotides (see also T63700,  
CC T63404-05) based on an androgen receptor cDNA clone (see also  
CC T63407) can be used to prevent androgen receptor gene expression,  
CC thereby inhibiting the growth or survival of prostatic cells for  
CC the treatment of benign prostatic hyperplasia and prostate cancer.  
SQ Sequence 919 AA:

Query Match 16.0%; Score 82; DB 1; Length 919;  
Best Local Similarity 32.0%; Pred. No. 1.16e+01;  
Matches 16; Conservative 11; Mismatches 23; Indels 0; Gaps 0;

DB 68 Q000000000ETSPRQ00000GEGDSPQAHRRGPTGYLVDEEQPSOP 117  
161 EQGPRLOYCCRCRCEQQR--HGKGDLMNPQSGSGRYEGEKEKSDN 210

RESULT 13  
ID P93109 standard; Protein; 919 AA.  
AC P93109:  
DT 19-MAR-1990 (first entry)  
DE Human androgen receptor.  
KW Human androgen receptor; polyclonal antibody; cancer.  
OS Homo sapiens.  
PN W08909791-A.  
PD 19-OCT-1989.  
PF 13-APR-1989; U01548.  
PR 14-APR-1988; US-182646.  
PA (UNC-) University of North Carolina.  
PI French FS, Wilson EM, Joseph DR, Lubahn DB;  
DR WPI: 89-324206/44.  
DR N-PSDB: N91772.  
PT DNA encoding androgen receptor protein - useful for transforming  
PT eukaryotic hosts for protein expression and subsequent antibody prodn.  
PS Disclosure; Fig. 4; 41pp; English.  
CC Androgen receptor protein (AR) is used to produce mono- or poly-clonal  
CC antibodies. These are used for the detection and quantification of AR in  
CC the presence of endogenous androgen, as androgen will not interfere with  
CC binding. They may be used in assays to determine and quantify cellular  
CC distribution of AR in tumour tissue, and are esp. useful for evaluating  
CC prostate cancers to determine responsiveness to androgen withdrawal  
CC therapy.  
SQ Sequence 919 AA:

Query Match 16.0%; Score 82; DB 1; Length 919;  
Best Local Similarity 32.0%; Pred. No. 1.16e+01;  
Matches 16; Conservative 11; Mismatches 23; Indels 0; Gaps 0;

DB 68 Q000000000ETSPRQ00000GEGDSPQAHRRGPTGYLVDEEQPSOP 117

OY 161 EQQEPRLQYOCORRCQEQROHGRGDLMPNQRGSGRYEECEKQSDNP 210

RESULT 14  
ID Y04866 standard; Protein; 112 AA.

AC Y04866:  
DT 06-JUL-1999 (first entry)  
DE Mycobacterium species protein sequence 19C'.  
KW Secreted protein; Mycobacterium; primer; PCR; amplification; probe;  
KW hybridisation; detection; vaccine; immunisation; infection.  
OS Mycobacterium sp.

PN W09909186-A2.  
PD 25-FEB-1999.  
PF 14-AUG-1998; F01813.  
PR 11-SEP-1997; FR-011325.  
PR 14-AUG-1997; FR-010404.  
PA (INSP) INST PASTEUR.  
PI Gicquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y,  
PI Guigueno A;  
DR WPI: 99-181045/15.  
DR N-PSDB: X34118.

PT Mycobacterial DNA vectors containing reporter constructs - for  
PT Identifying coding or promoter sequences involved in  
PT Infection-associated protein expression  
PS Claim 32; Fig 19C; 309pp; French.  
CC Sequences Y04742-Y05000 and Y07201-Y07204 represent secreted proteins  
CC from various Mycobacterium species microorganisms. The encoding  
CC nucleotide sequences can be used as primers and probes for methods  
CC for detecting and identifying mycobacteria, especially belonging to  
CC the M. tuberculosis complex. The encoded proteins can be used in  
CC vaccines for immunisation against a bacterial or viral infection.  
SQ Sequence 112 AA;

Query Match 15.4%; Score 79; DB 1; Length 112;  
Best Local Similarity 32.6%; Pred. No. 2.07e+01;  
Matches 14; Conservative 8; Mismatches 19; Indels 2; Gaps 1;

Db 25 RRLCGKHTAQORFXCANPGLRSRVQGRKRGDPRRQHRGEG 67  
OY 157 RRHCEQEPRLQYOCORRCQEQROHGR--GGDLMPNQRGSG 197

RESULT 15  
ID Y04861 standard; Protein; 126 AA.

AC Y04861:  
DT 06-JUL-1999 (first entry)  
DE Mycobacterium species protein sequence 19A.  
KW Secreted protein; Mycobacterium; primer; PCR; amplification; probe;  
KW hybridisation; detection; vaccine; immunisation; infection.  
OS Mycobacterium sp.

PN W09909186-A2.  
PD 25-FEB-1999.  
PF 14-AUG-1998; F01813.  
PR 11-SEP-1997; FR-011325.  
PR 14-AUG-1997; FR-010404.  
PA (INSP) INST PASTEUR.  
PI Gicquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y,  
PI Guigueno A;  
DR WPI: 99-181045/15.  
DR N-PSDB: X34113.

PT Mycobacterial DNA vectors containing reporter constructs - for  
PT Identifying coding or promoter sequences involved in  
PT Infection-associated protein expression  
PS Claim 32; Fig 19A; 309pp; French.  
CC Sequences Y04742-Y05000 and Y07201-Y07204 represent secreted proteins  
CC from various Mycobacterium species microorganisms. The encoding  
CC nucleotide sequences can be used as primers and probes for methods  
CC for detecting and identifying mycobacteria, especially belonging to  
CC the M. tuberculosis complex. The encoded proteins can be used in  
CC vaccines for immunisation against a bacterial or viral infection.  
SQ Sequence 126 AA;

Query Match 15.4%; Score 79; DB 1; Length 126;

Best Local Similarity 32.6%; Pred. No. 2.07e+01;  
Matches 14; Conservative 8; Mismatches 19; Indels 2; Gaps 1;

Db 39 RRLCGKHTAQORFXCANPGLRSRVQGRKRGDPRRQHRGEG 81  
OY 157 RRHCEQEPRLQYOCORRCQEQROHGR--GGDLMPNQRGSG 197

Search completed: Sat May 13 10:28:29 2000  
Job time : 9 secs.

